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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,211	07/25/2003	Benjamin Frydman	376462001900	4243
25226 75	590 11/02/2006	EXAMINER		
MORRISON & FOERSTER LLP			WARD, PAUL V	
755 PAGE MILL RD PALO ALTO, CA 94304-1018		•	ART UNIT	PAPER NUMBER
			1624	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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Application/Control Number: 10/627,211

Art Unit: 1624

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 14, 2006 has been entered.

### Claim Rejections - 35 USC § 103

1. The rejections of claims 1, 3-8, 10-12, 13-17 and 19-33 under 35 U.S.C. 103 have been overcome by Applicant's amendment filed August 14, 2006.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 13-15 and 19-32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention without undue experimentation.

Claims 13-15 and 19-32 are directed to a method of treating cancer. The term cancer is interpreted to include any and all forms of cancer. In light of this, it can be

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asserted that in spite of the vast expenditure of human and capital resources in recent years, no one drug has been found which is effective in treating all types of cancer because it is not a simple disease, nor is it even a single disease, but a complex of a multitude of different entities, each behaving in a different way. In re Hozumi, 226 USPQ 353 (ComrPats 1985).

The determination that "undue experimentation" would have been needed to make and use the claimed invention is not a single, simple factual determination.

Rather, it is a conclusion reached by weighing all the above noted factual considerations. In re Wands, 858 F.2d at 737, 8 USPQ2d at 1404.

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue".

These factors include, but are not limited to:

- (A) The breadth of the claims;
- (B) The nature of the invention;
- (C) The state of the prior art;
- (D) The level of one of ordinary skill;
- (E) The level of predictability in the art;
- (F) The amount of direction provided by the inventor;
- (G) The existence of working examples; and
- (H) The quantity of experimentation needed to make or use the invention based on the content of the disclosure.

#### The breadth of the claims

The breadth of the instant claims is seen to encompass methods for treating cancer by administering to a patient in need of such treatment a therapeutically effective

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amount of the compound claim. Applicant failed to exactly defined what types of cancers are treated. Thus, the claims are <u>extremely</u> broad.

### The nature of the invention

The nature of the invention is the treatment of cancer through the use of the claimed compound and derivatives thereof. Currently, there are no known agents that treat cancers <u>all inclusively</u>.

#### The level of predictability in the art

The treatment of cancer is highly unpredictable due to the differing forms of cancerous cells, their location, their potential for metastases, the fact that cancer therapeutics is palliative rather than curative and that cancer treatment readily harms normal tissues.

### The amount of direction provided by the inventor.

The applicant has not demonstrated sufficient guidance provided in the form of administration profiles, combination ratios of the active agents or reference to the same in the prior art to provide a skilled artisan with sufficient guidance to practice the instant treatment of cancer claimed. Further, the applicant discloses that an effective amount of the compound will be administered without providing any direction other than that the compounds of the invention have a high therapeutic index and follows this with a definition readily found in a basic pharmacology textbook. It should be noted that the therapeutic index of a drug in humans is almost never known and is only determined through clinical experience.

## The existence of working examples.

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There is not seen in the disclosure, sufficient evidence to support Applicant's claims of treating cancer. A conclusion of lack of enablement means that, based on the evidence regarding each of the above factors, the specification, at the time the application was filed, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation. In re Wright, 27 USPQ2d 1510 (CAFC). The disclosure does not demonstrate sufficient evidence to support the applicant's claim to the treatment of cancer. There are not sufficient working examples or data from references of the prior art to provide a nexus between those examples and a method of treating cancer with the claimed compound.

## The level of one of ordinary skill.

The level of skill is that of one with a doctoral understanding of cancer therapeutics.

### The quantity of experimentation.

A great deal of experimentation is required. In order for there to be a method of treating cancer generally, as claimed by the applicant, it would be necessary to show that a vast range of different types of cancers can be treated that have differing cell types, locations and potentials for metastases. Furthermore, direction, in the form of examples, must be shown to determine what an effective dose may be. The references submitted do not demonstrate this. Therefore, one of ordinary skill in the art would require a significant amount of experimentation in order to determine the effective dosage to treat the multitudes of different types of cancer with the claimed compound individually or in combination with other therapeutic agents.

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Thus, it can be safely concluded that the instant case fails to provide an enabling disclosure for the treatment of cancer.

#### Conclusion

Claims 1-8 and 10-32 are pending. Claims 13-15 and 19-32 are rejected.

Claims 1-8, 10-12, 16-18 and 33 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL V WARD whose telephone number is 571-272-2909. The examiner can normally be reached on M-F 8 am to 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James O. Wilson

Supervisory Patent Examiner,

Technology Center 1600